

CLAIMS

1. A diverter for use in multizone stimulation processes and characterised in that it comprises a ball consisting of wax with an appropriate melting point, size and specific gravity for use in the stimulation process.
2. A diverter as claimed in claim 1 comprising wax and an appropriate diluent.
3. A diverter as claimed in either of claim 1 or claim 2 wherein the diverter is spherical.
4. A method of producing a diverter suitable for use in multizone stimulation processes, the method being characterised by the features,
- a) that the process used to produce the diverters is an injection moulding process;
  - b) that the material used in the process is wax with or without any necessary diluent, of a melting point and specific gravity appropriate to the intended use; and
  - c) that the mould cavities defining the shape of the moulded products are ball-shaped.
5. A multizone stimulation process comprising the steps of:
- a) chemically treating an area to improve the flow of oil or gas through rock strata;
  - b) sealing the chemically treated area by insertion under pressure of diverters into perforations in the wall of a well; and
  - c) subsequently releasing the diverters to allow oil to flow;
- characterised by the use of diverters in the form of wax (or wax-based) balls of an appropriate size, specific gravity and melting point that, on release of the sealing pressure, they melt as they are carried upwards in the oil flow.
6. The invention substantially as described herein with reference to and as illustrated by any appropriate combination of the accompanying drawings.